



Amendments to the Claims:

The following listing of claims will replace all prior versions, and listings, of claims in the application:

- 1-10. (Canceled)
11. (Previously Presented) An apparatus for measuring and analyzing bioluminescence, comprising:
 - a receiving means to receive a luminescence measurement result group in real-time from a sample group of organisms,
 - a measurement controlling means to output a control signal for receiving said luminescence measurement result group,
 - a sorting means to sort said luminescence measurement result group, and
 - a displaying and maintaining means to display and maintain in real-time said luminescence measurement result group.
12. (Original) The apparatus as defined in claim 11, further comprising a comparing means to compare data of said luminescence measurement result group.
13. (Previously Presented) The apparatus as defined in claim 11, further comprising a storing means to store said luminescence measurement result group.
14. (Original) The apparatus as defined in claim 11, further comprising an analyzing means to analyze the rhythm of said luminescence measurement result group.
15. (Original) The apparatus as defined in claim 11, further comprising a statistical mutant screening means.
16. (Original) The apparatus as defined in claim 11, further comprising an outputting means to output analysis data on said luminescence measurement result group.
17. (Previously Presented) A program for measuring and analyzing bioluminescence, comprising:

a receiving means to receive a luminescence measurement result group in real-time from a sample group of organisms,

a measurement controlling means to output a control signal for receiving said luminescence measurement result group,

a sorting means to sort said luminescence measurement result group, and

a displaying and maintaining means to display and maintain in real-time said luminescence measurement result group.

18. (Original) The program as defined in claim 17, further comprising a comparing means to compare data of said luminescence measurement result group.

19. (Previously Presented) The program as defined in claim 17, further comprising a storing means to store said luminescence measurement result group.

20. (Original) The program as defined in claim 17, further comprising an analyzing means to analyze the rhythm of said luminescence measurement result group.

21. (Original) The program as defined in claim 17, further comprising a statistical mutant screening means.

22. (Original) The program as defined in claim 17, further comprising an outputting means to output analysis data on said luminescence measurement result group.